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10/812,070	03/30/2004	Takayuki Yamaguchi	119307	1308
25944 7590 07/31/2009 OLIFF & BERRIDGE, PLC			EXAMINER	
P.O. BOX 320850			KEMMERLE III, RUSSELL J	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/812.070 YAMAGUCHI ET AL. Office Action Summary Examiner Art Unit RUSSELL J. KEMMERLE III 1791 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 15 June 2009. 2a) ☐ This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-10.17-23 and 26-31 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-10,17-23 and 26-31 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (PTO/S5/08)
 Paper No(s)/Mail Date ______.

Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

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DETAILED ACTION

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 15 June 2009 has been entered.

Claim Rejections - 35 USC § 112

In view of applicant's comments the previous rejection under 35 USC §112, first paragraph, is withdrawn.

Claim Rejections - 35 USC § 103

Claims 1-4, 6, 8, 9 and 17-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Otagawa (US Patent 4,982,486) in view of Webster (US Patent 6,260,395).

Otagawa discloses a method of making a resin molding for use on vehicles.

Otagawa discloses that the process involves extruding a resin body through known techniques (including the use of a sizer), followed by allowing the resin to at least partially harden, and performing an axial bend (Col 3 line 42 – Col 4 line 20).

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Otagawa does not disclose that the axial bending is performed by gripping the resin molding in a bending apparatus and changing a position of the griping portion to a position not along the constant extrusion direction.

Webster discloses a method of bending a workpiece where the workpiece is gripped in a bend die which is rotatable moved about a pivot axis causing the workpiece to bend (that is, the position of the bend die is changed to a position not along the extrusion direction) (Col 7 lines 18-33, compare Fig 2 with Fig 3, and Fig 6 with Fig 7). Since the position of the bend die (and how far it is rotated) would determine the radius of curvature of the workpiece, this process controls the radius of the curvature of the work piece.

Referring to claims 2 and 3, the molding would have to be bent while at an elevated temperature in order for the bending to result in a final piece having such a bend, as is known to those in the art. If this were done using residual heat from the molding process (that is, while it is cooling, as appears to be the case in Otagawa since it is not stated that the molding is cooled and reheated during the recited processing steps) this would result in the temperature inside being higher than the temperature on the surface (since the molding would cool from the outside inward).

Referring to claim 4, the bent molding of Otagawa has a radius of curvature that is different at different points of the molding (as shown in Fig 2).

Referring to claim 6, Otagawa discloses that after bending the body is water cooled during sizing (i.e., compulsory cooled) (Col 4 lines 50-55).

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Referring to claim 8, Otagawa discloses that the molding be cut to length then bent. However, it would have been obvious to one of ordinary skill in the art that the selection of any order of these steps could have been effective, absent a showing of unexpected results. This would have been obvious because it appears that each step performs the same function in Otagawa and in the current invention, and that the performance of that step is not dependant on the other step being performed first. Specifically the bent body could be cut to size in the same manner that an uncut body could be, and a cut body could be bent in the same way as an uncut body. See *In re Burhans*, 154 F.2d 690, 69 USPQ 330 (CCPA 1946) (selection of any order of performing process steps is prima facie obvious in the absence of new or unexpected results).

Referring to claim 9, while the specific action performed by the bender in Otagawa is not disclosed, it would have necessarily had to have performed at least two of the steps recited in claim 9 to achieve the product shown in Fig 2. This is because if at least two of these steps are not performed the piece depicted in the figure could not have been made having such a shape while maintaining the constant angle of the cross section as is shown.

Referring to claim 17, Otagawa discloses that a first body be formed (stainless steel web) followed by passing it through an extrusion die, the resulting body is then bent. However, it would have been obvious to one of ordinary skill in the art that the selection of any order of these steps could have been effective, absent a showing of unexpected results. This would have been obvious because it appears that each step

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performs the same function in Otagawa and in the current invention, and that the performance of that step is not dependent on the other step being performed first. Specifically the bent stainless steel sheet could be passed through the extrusion die to have a resin part formed on it in the same manner that an uncut sheet could be, and a stainless steel sheet with the resin already molded to it could be bent in the same way as a sheet without the resin molded on to it. See *In re Burhans*, 154 F.2d 690, 69 USPQ 330 (CCPA 1946) (selection of any order of performing process steps is prima facie obvious in the absence of new or unexpected results).

Referring to claims 18-21, these limitations have been addressed above in the rejections of claims 4, 9, 8 and 6 respectively, and are reasserted here.

Referring to claim 22, Otagawa discloses that the first member be a stainless steel (metal) strip that has been roll-formed (Col 3 lines 42-44).

Claims 10 and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Otagawa in view of Webster as applied above to claims 1 and 17, and further in view of Uchimura (US Patent 6,739,599).

Otagawa and Webster are relied upon as discussed above, but does not disclose performing an axial twisting process on the resin molding.

Uchimura discloses a method of making a resin molding substantially similar to that of Otagawa, also for use as weather stripping on a vehicle. Uchimura further discloses that the molding be subjected to a twisting and flexing (bending) step in order to ensure a proper fit on the vehicle.

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It would have been obvious to one of ordinary skill in the art, at the time of invention by Applicant, to have modified the teaching of Otagawa in view of Webster by also performing an axial twist on the molding to ensure that the molding fit properly on the vehicle.

Response to Arguments

Applicant's arguments filed 15 June 2009 have been fully considered but they are not persuasive.

Applicants argue that Webster fails to teach "controlling a radius of curvature of a bend...by changing a position of the gripping portion to a position not along the constant extrusion direction". Applicants argue that the movement of the pressure applicator and tube contacting die of Webster does not control the radius of curvature of the bend in the workoiece, but rather the radius of curvature is controlled by the bend die.

This is not found to be persuasive since the position of the tube contacting apparatus of Webster, in combination with the bend die, controls what the radius of curvature of the workpiece will be. When a bending operation is being performed, the radius of the bend is controlled primarily by the bend die in Webster. However, if a bending operation is being performed or not is controlled almost entirely by the position of the tube contacting and pressure application. Therefore the radius of curvature is controlled by the position and movement of the tube contacting die and pressure applicator to be the radius defined with the bend die or an infinite radius of curvature (a straight line). Applicants have explicitly stated that the consider the term "radius of

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curvature" to include the infinite radius (a straight piece) (current specification, page 17, lines 22-24).

Applicants further argue that the pressure applicator, tube contacting die and bend die cannot constitute a "gripping portion".

This is not found to be persuasive because the tube contacting die, in combination with the bend die, does grip the workpiece in order to perform any bending operation. Specifically, as shown in Figs. 2 and 5, the tube contacting die 52 may be positioned away from the workpiece, and moved in to contact with the workpiece when a bending operation is to be performed (as shown in Fig. 3). This movement to contact the workpiece between the tube contacting die and the bend die appears to grip the workpiece.

Applicants further argue, with respect to claim 17, that a workpiece bent in a longitudinal direction cannot pass through an extrusion die unless the workpiece is bent by a constant radius of curvature and the extrusion die has a passage hole with the same radius of curvature, and that the order of steps is therefore not necessarily interchangeable.

This is not found to be persuasive because applicants have supplied no evidence to support this assertion. A bent workpiece, especially one with such a short bent area and large radius of curvature as shown in Otagawa may typically be passed through a static hole by turning the workpiece to keep it aligned with the hole as it passes through the hole. Applicants have shown no evidence of why this could not be done in the cas of Otagawa.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to RUSSELL J. KEMMERLE III whose telephone number is (571)272-6509. The examiner can normally be reached on Monday through Thursday, 7:00-5:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven Griffin can be reached on 571-272-1189. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/R. J. K./ Examiner, Art Unit 1791 / Carlos Lopez/ Primary Examiner, Art Unit 1791